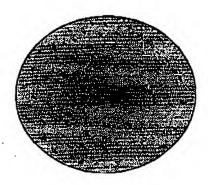
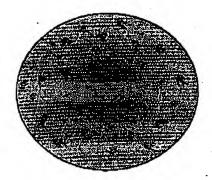




Starting Structure



Above Liquidus



Solidification Started



Solidification in Progress

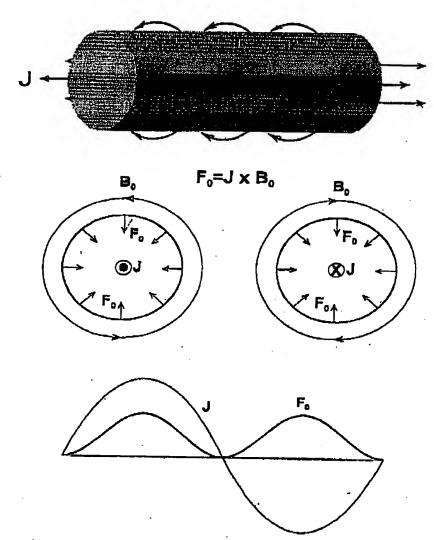


Final Structure

(Fig. 1)

Schematic representation of the effects of electromagnetic vibrations at different stages of solidification of molten Al-17wt%SI alloy containing suspended silicon particles.





(Fig. 2)

Schematic representation of the pulsating force developed by interaction of alternating electric and induced alternating magnetic fields.